

#### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

### NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

05/30/2002

Hughes & Luce, LLP 1717 Main Street Suite 2800 Dallas, TX 75201

EXAMINER SAINT SURIN, JACQUES M				
2856	073-655000			

DATE MAILED: 05/30/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/766,180	01/19/2001	Thomas E. Drake JR.	LOCK1420	9539

TITLE OF INVENTION: METHOD AND APPARATUS FOR IMPROVING THE DYNAMIC RANGE OF LASER DETECTED ULTRASOUND IN ATTENUATIVE MATERIALS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	08/30/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS.

THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



# PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

Commissioner for Patents Washington, D.C. 20231

<u>Fax</u> (703)746-4000

maintenance fee notification	is.				equired). Blocks 1 through 4 s is will be mailed to the current ess; and/or (b) indicating a sepa	
	E ADDRESS (Note: Legibly mark- 90 05/30/2002	up with any corrections or use B	lock I)	Fee(s) Transmittaccompanying pa	e of mailing can only be used for tal. This certificate cannot apers. Each additional paper, son the propertion of the control	be used for any other such as an assignment or
1717 Main Street Suite 2800 Dallas, TX 75201				I hereby certify United States Pos envelope address	Certificate of Mailing or Trans that this Fee(s) Transmittal is tal Service with sufficient posta- ed to the Box Issue Fee address USPTO, on the date indicated b	smission being deposited with the ge for first class mail in an above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVEN	ror	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/766,180	01/19/2001	TI	homas E. Drake J	₹.	LOCK1420	9539
APPLN. TYPE		ISSUE FEE		CATION FEE	OF LASER DETECTED U	DATE DUE
nonprovisional	NO	\$1280	1000	\$0	\$1280	08/30/2002
EXAMIN		ART UNIT	CLASS-SUBCL			
SAINT SURIN,	JACQUES M	2856	073-65500	0		
CFR 1.363).	ce address or indication of ence address (or Change of 22) attached.	`	the names of up or agents OR, single firm (ha	on the patent from to 3 registered p alternatively, (2) t ving as a member	atent attorneys the name of a or a registered	
☐ "Fee Address" indication PTO/SB/47) attached. Us	on (or "Fee Address" Indic e of a Customer Number	ation form is required.	registered paten	nt) and the name t attorneys or agen e will be printed.	ts. If no name  3	
PLEASE NOTE: Unless a	to the USPTO or is being s E	low, no assignee data wi submitted under separate (B) RE	ll appear on the p cover. Completio SIDENCE: (CITY	atent. Inclusion of n of this form is No and STATE OR C	assignee data is only appropriat OT a substitute for filing an assig COUNTRY)  COUNTRY	gnment.
4a. The following fee(s) are	•	•	ment of Fee(s):			
☐ Issue Fee				of the fee(s) is end		
☐ Publication Fee				l. Form PTO-2038	is attached. by charge the required fee(s), or o	oradit any overnayment to
Advance Order - # of C		Deposi	t Account Numbe	<u> </u>	enclose an extra copy of this	form).
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and other than the applicant; interest as shown by the re	I Publication Fee (if requ a registered attorney or a cords of the United States )	ired) will not be accept gent; or the assignee of Patent and Trademark Of	ed from anyone r other party in frice.			
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing t Patent and Trademark Off NOT SEND FEES OR Commissioner for Patents, Under the Beneguet Re	tes to complete, including m to the USPTO. Time we the amount of time you his burden, should be sen toe, U.S. Department of COMPLETED FORMS Washington, DC 20231.	gamering, preparing, and vill vary depending upor require to complete the to the Chief Information ommerce, Washington, I TO THIS ADDRES	n the individual nis form and/or on Officer, U.S. D.C. 20231. DO S. SEND TO:			
Under the Paperwork Re collection of information u	duction Act of 1995, no nless it displays a valid ON	persons are required to the control number.	o respond to a			



# United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/766,180	01/19/2001	Thomas E. Drake JR.	LOCK1420	9539	
7	590 05/30/2002		EXAMINER		
Hughes & Luce, LLP			SAINT SURIN, JACQUES M		
1717 Main Street Suite 2800			ART UNIT	PAPER NUMBER	
Dallas, TX 75201			2856		
			DATE MAILED: 05/30/2002		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

	Application No.	Applicant(s)	
Nation of Allowatellity	09/766,180 DRAKE, THOMAS E.		E.
Notice of Allowability	Examiner	Art Unit	
	Jacques M Saint-Surin	2856	
	Jacques IVI Gaint-Guilli	2000	<u> </u>
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commur GHTS. This application is su	this application. If not includ nication will be mailed in due	ed course. <b>THIS</b>
1.   This communication is responsive to the amendment of 03	/06/02		
2. The allowed claim(s) is/are <u>1-25</u> .			
The drawings filed on are accepted by the Examine	r.		
4. Acknowledgment is made of a claim for foreign priority und		<b>ൻ</b> .	
a) ⊠ All b) ☐ Some* c) ☐ None of the:	<b>3</b> * * * <b>(</b> -) ( +) * * * *	· · ·	
1.  Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have		No	
3. Copies of the certified copies of the priority doc	• •		ation from the
International Bureau (PCT Rule 17.2(a)).		5	
* Certified copies not received:	•		
5. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a	provisional application).	
(a) The translation of the foreign language provisional a	pplication has been received.		
6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. §§ 120 and/or	· <b>121</b> .	
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a rithis application. THIS THRE	reply complying with the requEE-MONTH PERIOD IS NOT	uirements noted EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which gives reas			NOTICE OF
8. X CORRECTED DRAWINGS must be submitted.			
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	( PTO-948) attached	
1) hereto or 2) to Paper No			
(b) including changes required by the proposed drawing of Examiner.	correction filed 1/31/02 and 0	03/06/02, which has been ap	proved by the
(c) including changes required by the attached Examiner'	s Amendment / Comment or	in the Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR 1, of each sheet. The drawings should be filed as a separate paper	84(c)) should be written on the with a transmittal letter address	e drawings in the top margin ( ssed to the Official Draftspers	not the back) on.
9. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MATE HE DEPOSIT OF BIOLOGIC	RIAL must be submitted. AL MATERIAL.	Note the
Attachment(s)			
<ul> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statements (PTO-1449), Paper No</li> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>	4☐ Interview 6☐ Examiner	Informal Patent Application Summary (PTO-413), Paper's Amendment/Comment 's Statement of Reasons for	r No

Application/Control Number: 09/766,180

Art Unit: 2856

#### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance: The prior art of record taken alone and in combination does not disclose "a modulator assembly placed in said path of said first laser beam operable to provide an output pulse having a time-dependent pulse profile, a detection system which applies said output pulse of said first laser beam to the material under test in order to detect the ultrasonic displacements and generate at least one output signal and a data processor to process said at least one output signal of said detection system to obtain data representative of said ultrasonic displacements" as recited in claim 1. These limitations are neither taught nor made obvious by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacques M Saint-Surin whose telephone number is (703) 308-3698. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (703) 305-4705. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Art Unit: 2856

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 0956.

Jacques M. Saint-Surin May 22, 2002

> HEZRON WILLIAMS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800